

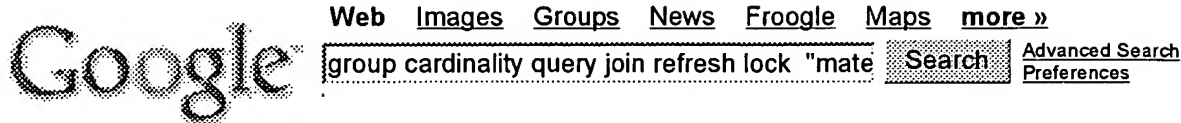
## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	20	707/2.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:43
L2	15	707/3.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:43
L3	3	707/201.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:43
L4	12	707/100.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:43
L5	6	707/104.1.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:44
L6	5	707/5.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:44
L7	3	707/6.ccls. and (materialized adj view) and refresh and group\$5 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/11 07:44
S1	275	(materialized adj view) and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 08:53
S2	71	(materialized adj view) and refresh and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 08:54

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S4	41	(materialized adj view) and refresh and group\$5 and join and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:49
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S6	27	(materialized adj view) and refresh and group\$5 and join and query and match and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:07
S7	27	(materialized adj views) and refresh and group\$5 and join and query and match and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:07
S8	13	(materialized adj views) and refresh and group\$5 and join and query and match and choos\$4 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:24
S9	0	((materialized adj views) with choos\$4) and refresh and group\$5 and join and query and match and choos\$4 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:08
S10	0	((materialized adj view) with choos\$4) and refresh and group\$5 and join and query and match and choos\$4 and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:08
S11	2	"20050114307"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 09:24
S12	5	(materialized adj view) and refresh and re\$1group\$5 and join and @ad < "20031125"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/08 17:46

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### Schema Objects

The **materialized view** log resides in the same database and schema as its ... Then the following **query** can be run by accessing the bitmap **join** index to avoid ...

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### Schema Objects

For materialized views that use the fast **refresh** method, a **materialized view** log or direct loader log keeps a record of changes to the master tables. ...

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### Initialization Parameters

DML **LOCKS** specifies the maximum number of DML **locks**—one for each table ... **Query** rewriting is enabled for a particular **materialized view** only if both the ...

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describe phase of **query** processing, 16-13: DETERMINISTIC functions. function-based indexes, 19-8. dictionary. See data dictionary. dictionary cache **locks** ...

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**\_improved\_outerjoin\_card** improved outer-join cardinality calculation ...

**\_mv\_refresh\_new\_setup\_disabled** **materialized view** MV **refresh** new setup disabling ...

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**ALTER MATERIALIZED VIEW** statement, 8.3: **ALTER SESSION** statement ... bitmap indexes, 6.1.4: bitmap join, 6.1.5: B-tree, 6.2: **cardinality**, 6.1.2: creating in ...  
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 We will see the effect this had on the size of the **materialized view**. ... **Join Graph of the View Query**. The number of rows for each table is shown. ...  
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The complete **refresh** of **Materialized view** fails because it is unable to purge the existing ... **Join cardinality** issue in D/W environments May 19, 2005 ...  
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The right outer join works **CREATE MATERIALIZED VIEW** dept\_emp\_oj\_mv **REFRESH FAST ON COMMIT** as select dept.rowid drid, dept.deptno d, emp.rowid erid, ...  
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**REFRESH**) or automatically (on COMMIT) or at defined intervals (using ... Oracle will automatically rewrite a **query** to use a **materialized view** when ...  
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## Optional database monitor logical file DDS

F1 - **Query** contains grouping columns (**GROUP BY**) from more that one table, or contains grouping columns from a secondary table of a **join query** that cannot be ...  
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### United States Patent: 6763352

... rows without reference to the underlying tables of the **materialized view query**. ... If the **cardinality** of the new **group** becomes zero, than a delete ...  
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Dear Tom I create **materialized view** like this : create **materialized view** dtl\_budget\_mv build immediate **refresh** fast enable **query** rewrite as select a.company ...  
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Hi Tom Can I determine the ordering of the MV's in a **refresh group**? ... 19-DEC-05, **Materialized View Fast refresh** containing UNION (Ask Tom ) ...  
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### Glossary of Terms

**Cardinality** constraint: Specifies the number of instances of one entity that can (or ...  
**Materialized view**: Copies or replicas of data based on SQL queries ...  
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### Schema Objects

The **refresh** method can be incremental (fast **refresh**) or complete. For materialized views that use the fast **refresh** method, a **materialized view** log or direct ...  
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 when one **query** server is done with the join of one pair of partitions, ... roughly the ratio of the fact table **cardinality** to the **materialized view** ...  
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### Bugs fixed in the 9.2.0.3 Patch Set

2533616, **Materialized view refresh** can use lots of CPU. 2544257, **Query** rewrite only rewrites one branch of **GROUP BY UNION ALL** statement ...  
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**GROUP BY** clause. decreasing demand for, 18-39. grouping ... **FAST REFRESH**, 8-20 · nested materialized views, 8-24 · **query** rewrite, 8-19 · **REWRITE** hint, 19-5, ...

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Materialized Views **query** without **refresh**? - Denham Eva RE: More than one table for a Triggers ... Re: ddl extract for **materialized view** - David Sharples ...

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Problem with **materialized view refresh**... - Chris Stephens Searches on OTN -

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However, a **materialized view** exists as a table and thus care must be taken to keep it synchronized with its associated base tables. (7). Maximum **cardinality** ...

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... referred to as a **materialized view**, is the result set of a **query** which is ... the number of unique values (**cardinality**) of every column; it requires a ...

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A **query** optimization component selects the least cost **join** algorithm for each **join** ... **Query Rewriting**, a substitution process in which a **materialized view** ...

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### C

complex **materialized view** · complex number · complex view ... cross development · cross **join** · cross platform · cross product **group** · cross reference ...  
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Language Dimension: Is the view expressed as a select-project-**join query** (also ... View maintenance on outer-**join** views using the **materialized view** and all ...  
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D L imposes restrictions on **cardinality** values. OWL DL was named after ... a mounts to maintaining a **materialized view** that is stored separate from the data ...

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A synonym is an alias for any table, view, **materialized view**, sequence, ... For example, if a **query** contains a DISTINCT clause, a **GROUP BY**, and an ...  
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14 ORA-19400 to ORA-24276

ORA-22953: **Cardinality** of the input to powermultiset exceeds maximum allowed ... Action: Subtract the **materialized view** from the current **refresh group** and ...  
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4. Distributed **Query** Processing. display. union. **join**. **join** ... When it is possible to **refresh** the **materialized view**, it applies the ...  
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Action: In order for the **materialized view** to work correctly, any fine grain access control procedure in effect for the **query** must return a null policy when ...  
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Without partitioning: global **join** (**query** time NxN) ... Using a **refresh group** – no 'down time' – the user can access the data even during the time the ...

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extremely high "consistent gets" count on **query** of all\_constraints view, mike, 23:03 ... Re:

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**materialized view** logs on LINEITEM and ORDERS, for materialized views MJ\_LOCS and MJ\_PPSSRN and ... \$cmd .= "disable **query** rewrite\n";. } \$cmd .= "**refresh** ...

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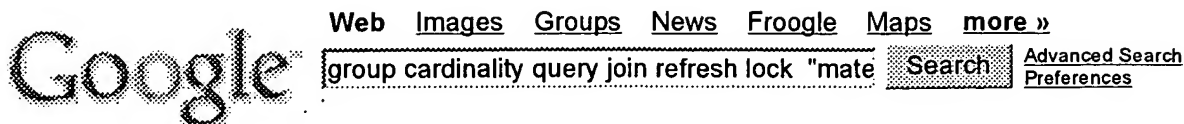
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v The **GROUP BY** clause is not allowed. v The materialized **query** table must only reference a single table; that is, it cannot include a **join**. When **REFRESH** ...

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implements a subquery as a special kind of **join query** with a **group by** and hence ... try again to **refresh** the cache **group**. A nonfatal error, such as a **lock** ...

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A **query** that contains an outer **join** and references a table in that data source is ... option if **CURRENT REFRESH AGE** setting is set to **ANY**. **CURRENT QUERY** ...

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that are necessary to satisfy a **query**. These columns are the **join** column and ... Updates the catalog for the **refresh** timestamp and **cardinality** of the MQT. ...

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using **lock** options. When an object is locked, a server-side **lock** is acquired, which ...

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8171, 1286623, **ALTER MATERIALIZED VIEW REFRESH ON COMMIT** does not error when it ... 

```
When an MV has a GROUP BY but there is no GROUP BY in the query, ...
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The **cardinality** (eg, the number of rows) of each table of the test database, as it existed at ... **REFRESH** fast. ON commit. enable **query** rewrite. as select ...

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stored in a **materialized view**. **Query** rewrites are particularly useful in a data ... For example, if a **query** contains a DISTINCT clause, a **GROUP** ...  
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If **cardinality** is very small, you can set a small value for this ... **Query** rewriting is enabled for a particular **materialized view** only if both the ...  
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maybe a **materialized view**, rebuilt in parallel, is the answer; maybe a bitmap **join** index does it. 44. Effective Oracle by Design ...  
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**query** as a snapshot at the time that you issue the **REFRESH TABLE** ... By using **materialized query** tables, you can optimize queries that **join** multiple ...  
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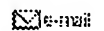
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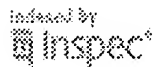
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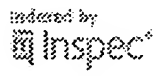
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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

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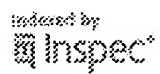
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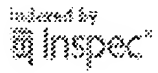
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## » Key

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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

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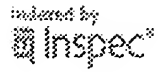
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